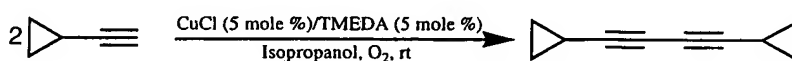


CLAIMS

1. A process for the synthesis of 1,4-dicyclopentyl-1,3-butadiyne in high yields comprising, adding to catalytic amounts of CuCl and tetramethylethylenediamine (TMEDA) in isopropanol, cyclopentyl acetylene (CPA) in isopropanol under aerobic conditions.

2. A method of making 1,4-dicyclopentyl-1,3-butadiyne, employing the reaction



3. The method of claim 1 wherein said butadiyne is formed by steps comprising:

- a) charging a container with catalytic amounts each of TMEDA and finely crushed CuCl in a solution of isopropanol,
 - b.) adding a solution of CPA in isopropanol thereto,
 - c.) sparging oxygen into the mixture which then exhibits a green suspension therein,
 - d.) stirring the solution,
 - e) filtering the solution, to obtain a green filtrate and
 - f) washing and drying same to obtain high yield 1,4-dicyclopentyl-1,3-butadiyne.
4. The method of claim 3 wherein said catalytic amounts are about 5 mole % each, of TMEDA and CuCl.